

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. **(Currently Amended)** A tire measuring device comprising:
 - a converter for converting ambient energy to an alternating value;~~and~~
 - a reflector for an electromagnetic signal that can be modulated via the alternating value;
 - a piezoelectric layer as the energy converter, and
 - a layer with a controllable dielectric.
2. **(Previously Presented)** The tire measuring device according to claim 1, wherein the reflector comprises a reflector for a high-frequency electromagnetic signal.
3. **(Previously Presented)** A tire measuring device according to claim 1, wherein the tire measuring device further comprises an antenna.
4. **(Previously Presented)** A tire measuring device according to claim 1, wherein the tire measuring device is a backscatter transponder.
5. **(Previously Presented)** A tire measuring device according to claim 1, wherein the tire measuring device comprises a sensor for determining a measured value.
6. **(Previously Presented)** A tire measuring device according to claim 5, wherein the converter converts the ambient energy to an alternating value as a function of the measured value.

7. (Previously Presented) A tire measuring device according to claim 5, wherein the tire measuring device comprises a means to influence the alternating value as a function of the measured value.

8. (Currently Amended) ~~A~~The tire measuring device ~~according to claim 1~~ comprising:

- a reflector for an electromagnetic signal that can be modulated via the alternating value;

—wherein the alternating value comprises a first alternating value and a second alternating value; and

wherein the first and second alternating values are alternating values which are derived from an original alternating value that can be broken down and wherein, after the breakdown, the first and second alternating value can be influenced differently by a measured value.

9. (Cancelled)

10. (Original) The tire measuring device according to claim 8, further comprising a second converter for generating the second alternating value.

11. (Cancelled)

12. (Previously Presented) A tire measuring device according to claim 1, wherein the converter comprises at least one piezoelectric fiber.

13. **(Currently Amended)** A tire comprising a tire measuring device comprising:
- a converter for converting ambient energy to an alternating value; ~~and~~
- a reflector for modulating an electromagnetic signal that can be modulated via the alternating value;

- a piezoelectric layer as the energy converter, and
- a layer with a controllable dielectric.

14. **(Previously Presented)** A tire according to claim 13, wherein the tire measuring device is connected to the tire cover.

15. **(Currently Amended)** A rim with a tire measuring device, said device comprising:

- a converter for converting ambient energy to an alternating value wherein the alternating value comprises a first alternating value and a second alternating value; ~~and~~
- a reflector that can be modulated via the alternating value;
- a piezoelectric layer as the energy converter, and
- a layer with a controllable dielectric.

16. **(Currently Amended)** A vehicle comprising:
- a plurality of tires, wherein each tire comprises a tire measuring device comprising:

- a converter for converting ambient energy to an alternating value, the alternating value comprising a first alternating value and a second alternating value, and
- a reflector that can be modulated via the alternating value;
- a piezoelectric layer as the energy converter; and
- a layer with a controllable dielectric.

17. (Currently Amended) A method for tire measurement comprising the steps of:

- converting the ambient energy to an alternating value,
- modulating a reflector via the alternating value, and
- generating a first alternating value and a second alternating value, wherein the first and second alternating values are alternating values which are derived from an original alternating value that can be broken down and wherein, after the breakdown, the first and second alternating value can be influenced differently by a measured value.

18. (Original) The method according to claim 17, wherein the step of converting the ambient energy to an alternating value is performed as a function of a measured value.

19. (Original) The method according to claim 17, further comprising the step of influencing the alternating value as a function of a measured value.

20. (Cancelled)

21. (Cancelled)